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PATENT

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent of: )  
: Examiner: Antonio Caschera  
KHANH PHI VAN DOAN )  
: Art Unit: 2628  
Appln. No.: 10/022,376 )  
:   
Filed: December 20, 2001 )  
:   
For: RENDERING OBJECTS )  
:   
U.S. Patent No.: 7,110,003 B2 )  
:   
Issued: September 19, 2006 ) May 24, 2007

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**Certificate**  
MAY 30 2007  
**of Correction**

CERTIFICATE OF CORRECTION  
UNDER RULES 322 AND 323

Sir:

It is respectfully requested that a Certificate of Correction be issued by the Patent and Trademark Office due to errors which appear in the printed patent as a result of Patent and Trademark Office mistakes, and mistakes of a clerical, typographical, or minor character, which were not the fault of the Patent and Trademark Office. A Certificate of Correction form, in duplicate, is enclosed.

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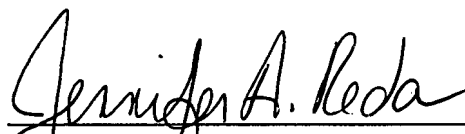
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Accompanying this letter is a check for \$100.00 to cover the statutory fee  
for such Certificate of Correction.

Patentee's undersigned attorney may be reached in our New York office by  
telephone at (212) 218-2100. All correspondence should continue to be directed to our  
address given below.

Respectfully submitted,



Jennifer A. Reda  
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**CERTIFICATE OF CORRECTION**

PATENT NO. : US 7,110,003 B2

DATED : September 19, 2006

INVENTOR(S) : KHANH PHI VAN DOAN

Page 1 of 8

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 4:

Line 17, "illustrates" should read --illustrate--;  
Line 19, "illustrates" should read --illustrate--;  
Line 21, "illustrates" should read --illustrate--;  
Line 23, "illustrates" should read --illustrate--;  
Line 26, "illustrates" should read --illustrate--;  
Line 48, "is a" should read --are--; and "chart" should read --charts--;  
Line 53, "is a" should read --are--; and "chart" should read --charts--;  
Line 55, "FIGS. 29" should read --FIG. 29--; and  
Line 61, "is a" should read --are--; and "chart" should read --charts--.

COLUMN 5:

Line 1, "FIGS. 33" should read --FIG. 33--;  
Line 30, "direction" should read --direction.--;  
Line 57, "follows;" should read --follows:--;  
Line 62, "Eqn. (1)." should read --Eqn. (1)--; and  
Line 67, "of" should read --of:--.

COLUMN 7

Line 13, "Porter et. al.," should read --Porter et al.--; and  
Line 66, "Porter et. al)." should read --Porter et al.)--.

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Page 2 of 8

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 8:

Line 8, "represents" should read --represent--; and  
Line 56, "may" should read --may be--.

COLUMN 9:

Line 16, "3614," should read --3614.--;  
Line 34, "rule" should read --rule.--; and  
Line 38, "polygons," should read --polygons.--.

COLUMN 11:

Line 24, "pixel," should read --pixel.--; and  
Line 56, "respectively," should read --respectively.--.

COLUMN 12:

Line 9, "region," should read --region.--; and  
Line 59, "area In" should read --area. In--.

COLUMN 13:

Line 27, "mation"." should read --mation",--;  
Line 39, "regions," should read --regions.--;  
Line 42, "polygons" should read --polygon,--; and  
Line 50, "mule" should read --rule--.

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Page 3 of 8

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 14:

Line 28, "poses" should read --posing--.

COLUMN 15:

Line 25, "be then" should read --then be--.

COLUMN 16:

Line 35, " $\alpha(e-x-y)+\alpha(b-x-Y)+x(2\alpha-\alpha^2)=\alpha(e+b-2y)-\alpha^2x$ " should read  
-- $\alpha(e-x-y)+\alpha(b-x-y)+x(2\alpha-\alpha^2)=\alpha(e+b-2y)-\alpha^2x$ --;

Line 37, "Where" should read --where--;

Line 41, "by" should read --by:--;

Line 46, "becomes" should read --becomes:--; and

Line 51, "prising" should read --prised--.

COLUMN 17:

Line 9, "illustrate" should read --illustrated--;

Line 21, "it it" should read --it is--;

Line 33, "die" should read --the--; and

Line 46, "virtual" should read --virtuality--.

COLUMN 18:

Line 17, "boundary" should read --boundary.--.

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Page 4 of 8

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COLUMN 19:

Line 19, "m the" should read --in the--;  
Line 47, "As" should read --as--;  
Line 51, "by" should read --by:--;  
Line 54, "As" should read --as--; and  
Line 63, "4.0" should read --4.0.--; and "approximate" should read  
--approximates--.

COLUMN 20:

Line 3, "becomes" should read --becomes:--;  
Line 8, "becomes" should read --becomes:--;  
Line 12, "Eqns" should read --Eqns.--;  
Line 21, "be not" should read --not be--; and  
Line 67, "comprising" should read --comprised--.

COLUMN 21:

Line 32, "by" should read --by:--;  
Line 39, "operation," should read --operation.--;  
Line 40, "are" should read --is--; and  
Line 41, "formulae" should read --formulae:--.

COLUMN 22:

Line 10, "ing" should read --ed--;  
Line 12, "area" should read --area z--;  
Line 20, "Which" should read --which--; and "suns" should read --sum--; and  
Line 65, "to" should read --to:--.

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COLUMN 23:

Line 2, "to" should read --to:--;

Line 20, "region" should read --regions--; and

Line 61, "s<sub>32</sub>" should read --s<sub>32</sub> =--.

COLUMN 24:

Line 62, "upto" should read --up to--; and

Line 63, " $W_+, W_-, |W_+ - W_{31}|$ " should read -- $W_+, W_-, |W_+ - W_-|$ --.

COLUMN 25:

Line 15, "formulae;" should read --formulae:--; and

Line 30, "Eqns" should read --Eqns.--.

COLUMN 27:

Line 8, "2616," should read --2616.--; and

Line 49, "region," should read --regions--.

COLUMN 29:

Line 62, "values" should read --value,--.

COLUMN 30:

Line 17, " $m_x$ ," should read -- $m_x$ --.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

COLUMN 31:

Line 14, "is" should be deleted;  
Line 23, "tis" should read --this--.

COLUMN 32:

Line 38, " $W_+ = p_+/a_+$ , where  $p_+$ " should read -- $W_+ = p_+/a_+$ , where  $p_+$ --;  
Line 45, " $a_{31}$ " should read -- $a_-$ --;  
Line 52, "respectively" should read --respectively.--; and  
Line 58, " $s = a_{31}$ ," should read -- $s = a_-$ --.

COLUMN 33:

Line 55, "combing" should read --combining--;  
Line 67, "subre" should read --subre---.

COLUMN 34:

Line 2, "half" should read --half.--; and "by" should read --by:--;  
Line 57, "Eqns" (both occurrences) should read --Eqns.--; and  
Line 65, "Eqns" should read --Eqns.--.

COLUMN 35:

Line 2, "ill" should read --fill--; and "Eqns" should read --Eqns.--; and  
Line 5, " $0.65(\alpha(-0.4231))+0.225(\alpha)$ ." should read  
-- $0.65(\alpha(1-0.4231))+0.225(\alpha)$ --.

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COLUMN 38:

Line 16, "my" should read --My--;  
Line 54, "segments," should read --segments.--; and  
Line 58, "region," should read --region.--.

COLUMN 39:

Line 6, "turing" should read --turning--;  
Line 29, "m<sub>a</sub>," should read --m<sub>a</sub>--; and  
Line 33, "FIGS." should read --FIG.--.

COLUMN 40:

Line 18, "computer" should read --computer.--; and  
Line 57, "3705," should read --3705.--.

COLUMN 41:

Line 22, "one" should be deleted;  
Line 23, "call" should read --can--; and  
Line 39, "1-(1- $\alpha$ )<sup>m</sup>" should read --1-(1- $\alpha$ )<sup>m</sup>--.

COLUMN 42:

Line 33, "1-(1- $\alpha$ )<sup>m</sup>" should read --1-(1- $\alpha$ )<sup>m</sup>--; and  
Line 45, "pixel, and" should read --pixel; and--.

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COLUMN 43:

Line 35, "with" should be deleted; and

Line 41, "pixel, and" should read --pixel; and--.

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